



Standard Terminology Relating to Safety and Traction for Footwear¹

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1. Scope

1.1 This terminology standard covers terminology used in safety and traction for footwear and related material.

1.2 Words adequately defined in standard dictionaries are not included. Included are words that are particular to this industry.

NOTE 1—The following standards are currently under the jurisdiction of ASTM Committee F13 on Safety and Traction for Footwear and are included in 2.1: Test Methods F489, F609, and F694; Practices F695 and F1637; and Guides F802 and F1240.

2. Referenced Documents

2.1 ASTM Standards:²

D5859 Test Method for Determining the Traction of Footwear on Painted Surfaces Using the Variable Incidence Tester (Withdrawn 2005)³

F489 Test Method for Using a James Machine (Withdrawn 2005)³

F609 Test Method for Using a Horizontal Pull Slipmeter (HPS)

F694 Test Method for Heel-Attaching Strength of Women's Shoes (Withdrawn 2008)³

F695 Practice for Ranking of Test Data Obtained for Measurement of Slip Resistance of Footwear Sole, Heel, and Related Materials

F802 Guide for Selection of Certain Walkway Surfaces When Considering Footwear Traction (Withdrawn 2012)³

F1240 Guide for Ranking Footwear Bottom Materials on Contaminated Walkway Surfaces According to Slip Resistance Test Results

F1637 Practice for Safe Walking Surfaces

F1694 Guide for Composing Walkway Surface

Investigation, Evaluation and Incident Report Forms for Slips, Stumbles, Trips, and Falls
F2508 Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces

3. Terminology

adhesion, *n*—the tendency of one surface to adhere to another surface prior to movement due to dwell time, as well as other factors.

arch, *n*—the bony framework of the foot extending from the heel to the toes and sustained by the muscles and ligaments in the form of an arch. Also, the bottom curve of a shoe last from heel to ball.

barefoot, *adv or adj*—with the feet uncovered or unclothed; without shoes or stockings.

bollard, *n*—a thick, low, short, post, often of iron or steel and usually used in series, provided for the purpose of excluding or diverting motor vehicles from a road, lawn, or path.

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breast, *n*—the forward or front face of a shoe heel.

calibration, *n*—the set of operations that establishes, under specified conditions, the relationship between the values obtained by a walkway tribometer and the corresponding supplier reference values.

F2508

carpet, *n*—permanently secured fibrous floor covering.

DISCUSSION—Area rugs, mats, and runners are not considered to be carpet for the purpose of this practice.

F1637

clean, *n*—free from visible or tactile contamination.

coating, *n*—a layer of any substance intentionally applied to a surface to modify its functional or decorative characteristics.

coefficient-of-friction (COF or μ), *n*—a dimensionless number: the ratio of two forces acting at the interface of two contacting solid bodies. The force used in the numerator is parallel to the surfaces and the force used in the denominator is perpendicular (normal) to the surfaces. See also *dynamic coefficient of friction*.

coefficient of friction (COF), *n*—the ratio of the horizontal component of force (parallel to the walkway surface and passing through the tester center of gravity) required to

¹ This terminology is under the jurisdiction of ASTM Committee F13 on Pedestrian/Walkway Safety and Footwear and is the direct responsibility of Subcommittee F13.91 on Editorial and Terminology.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.